

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: June 23, 2003, 17:08:13 ; Search time 50 Seconds
(without alignments)
1367.778 Million cell updates/sec

Title: US-09-817-199B-2

Perfect score: 1150
Sequence: 1 WTGTPCAVATRGEAPERSP.....FQIRDYVSKKRSKCCSPM 223

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL-frame_plus_p2n.model -DEV-xlh
-Q/cgn2_1/USPTO.spool/US09817199/runat_18062003_145102_810/app_query.fasta_1.391
-DB-Issued_Patents_NA -QFMT-fastap -SUFFIX-p2n.rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS-bits -START=1 -END=1 -MATRIX-blosum62 -TRANS-human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTPMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09817199 -CGN_1_1_40 -runat_18062003_145102_810 -NCPU=6 -ICPU=3
-NO_MMAPP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued_Patents_NA.*
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2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PTCUS_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1150	100.0	2612	4	US-09-484-970B-142
2	1140	99.1	875	4	US-09-075-454-10
3	731	63.6	1340	2	US-08-824-873-2
4	731	63.6	1340	3	US-09-198-184-2
5	470	40.9	925	2	US-08-916-901-4
6	470	40.9	925	4	US-09-154-602-4
7	448.5	39.0	639	4	US-09-399-913-66
8	385	33.5	970	3	US-08-888-077A-28
9	372	32.3	803	4	US-09-075-454-13
10	359	31.2	847	2	US-08-773-423-4
11	302.5	26.3	1175	2	US-08-773-423-6
12	296	25.7	820	3	US-08-741-411-6

13	294.5	25.6	1533	4	US-09-075-454-11	Sequence 11, Appl
14	291	25.3	1172	4	US-09-075-454-8	Sequence 8, Appl
15	284.5	24.7	848	3	US-08-741-411-2	Sequence 2, Appl
16	279	24.3	1749	2	US-09-149-476-54	Sequence 54, Appl
17	277	24.1	1255	2	US-08-766-551-6	Sequence 6, Appl
18	265.5	23.1	607	2	US-08-429-964-85	Sequence 85, Appl
19	265.5	23.0	4480	4	US-09-167-322-12	Sequence 12, Appl
20	264.5	23.0	574	2	US-08-429-964-83	Sequence 83, Appl
21	262.5	22.8	5775	1	US-08-306-691B-15	Sequence 15, Appl
22	262.5	22.8	5775	5	PCT-US93-06251-29	Sequence 29, Appl
23	258.5	22.5	890	3	US-08-741-411-4	Sequence 4, Appl
24	256.5	22.3	1334	2	US-08-916-901-2	Sequence 2, Appl
25	256.5	22.3	1334	4	US-09-154-602-2	Sequence 2, Appl
26	253	22.0	615	1	US-08-247-946A-5	Sequence 5, Appl
27	253	22.0	615	5	PCT-US95-06420-5	Sequence 5, Appl
28	252.5	22.0	1098	2	US-08-948-616-6	Sequence 6, Appl
29	252.5	22.0	1098	2	US-09-193-510-6	Sequence 6, Appl
30	252.5	22.0	1098	4	US-09-368-402-6	Sequence 6, Appl
31	251.5	21.9	1407	4	US-09-493-914-1	Sequence 1, Appl
32	250	21.7	2436	1	US-08-306-691B-16	Sequence 16, Appl
33	249.5	21.7	985	4	US-08-842-306B-1	Sequence 1, Appl
34	249.5	21.7	985	4	US-08-838-973B-1	Sequence 1, Appl
35	249.5	21.7	985	4	US-08-771-212A-1	Sequence 1, Appl
36	249.5	21.7	3198	4	US-08-842-306B-48	Sequence 48, Appl
37	249.5	21.7	3198	4	US-08-838-973B-48	Sequence 48, Appl
38	248.5	21.6	603	4	US-09-325-932A-29	Sequence 29, Appl
39	248.5	21.6	932	4	US-09-325-932A-28	Sequence 28, Appl
40	245	21.3	570	4	US-08-884-866A-2	Sequence 2, Appl
41	245	21.3	570	4	US-08-884-866A-11	Sequence 11, Appl
42	243	21.1	914	2	US-08-773-423-2	Sequence 2, Appl
43	241.5	21.0	702	3	US-08-842-976-2	Sequence 2, Appl
44	241.5	21.0	702	3	US-09-213-397-2	Sequence 2, Appl
45	241.5	21.0	702	3	US-09-416-489-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1

US-09-484-970B-142
; Sequence 142, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmut, Wayne
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 142
; LENGTH: 2612
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6426186 412477.1CB1
US-09-484-970B-142

Alignment Scores:
Pred. No.: 3.4e-146 Length: 2612
Score: 1150.00 Matches: 223
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-09-817-199B-2 (1-223) x US-09-484-970B-142 (1-2612)

QY 1 MetThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerPro 20
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DB 16 ATGACGGGCACGCCAGCGCGCGTTGCCACCGGATGGGAGGCCCGCCGCTCCCG 75

QY 21 ProCysSerProSerTyAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyVal 40
DB 76 CCCTGCAGTCGAGCTACGAGCTACGGGCAAGGTGATGCTTCTGGGAGACACAGGCGTC 135
QY 41 GlyLysThrCysPheLeuLeuLeuPheLysAspGlyAlaPheLeuSerGlyThrPheTle 60
DB 136 GCAAAACATGTTCTCTGATCCATTCANAGACGGGCTTCTCTGTCGGAACCTTCATA 195
QY 61 AlaThrValGlyLeuAspPheArgAsnLysValValThrValAspGlyValArgValLys 80
DB 196 GCCACCGTCGCATAGACTTCAGGACAAAGTGTGACTGTGGATGGGTGAGAGTGAAG 255
QY 81 LeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyr 100
DB 256 CTGCAGATCTGGACACCGCTGGGCGAGGAGGTTCCGAAGCGTCACCCATGCTATTATC 315
QY 101 ArgAspAlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerPheAspAsn 120
DB 316 AGAGATGCTCAGGCTTCTCTGCTGTATGATCATCACCACCAATCTTCTTTCGACAC 375
QY 121 IleArgAlaTrpLeuThrGluLeuHisGluTyrAlaGlnArgAspValValIleMetLeu 140
DB 376 ATCAGGCGCTGGCTCACTGAGATTCATGATGATGCCAGAGGAGCGTGTGATCATGCTG 435
QY 141 LeuGlyAsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThr 160
DB 436 CTAGGACAAAGCGGATGATGAGCGGAAAGAGTGATCCGTTCGGAAGCGGAGAGACC 495
QY 161 LeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnVal 180
DB 496 TTGGCCAGGAGTAGCGGTGTTCCCTCTCTGGAGACCGGCGCAAGACTGGCATGATG 555
QY 181 GluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAsp 200
DB 556 GAGTGTAGCTTCTGGCCATGCCAAGGAAGTGAATACCGGCGCGGCGCATCAGCGGAT 615
QY 201 GluProSerPheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys 220
DB 616 GAGCCAGGCTCCAGATCCGAGACTATGTAGATGCCAGAGACCGGCGCAAGCGCTCCAGCTGCTGC 675
QY 221 SerPheMet 223
DB 676 TCCTTCATG 684

RESULT 2

US-09-075-454-10

Sequence 10, Application US/09075454

Patent No. 6391580

GENERAL INFORMATION:

APPLICANT: Hillman, Jennifer L.

APPLICANT: Tang, Y. Tom

APPLICANT: Lal, preeti

APPLICANT: Guegler, Karl J.

APPLICANT: Corley, Neil C.

APPLICANT: Patterson, Chandra

APPLICANT: Batra, Sajeev

APPLICANT: Baughn, Mariah R.

TITLE OF INVENTION: RAS PROTEINS

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

STREET: 3174 Porter Drive

CITY: Palo Alto

STATE: CA

COUNTRY: US

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: Word Perfect 6.1/MS-DOS 6.2

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/075,454

FILING DATE: Herewith

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/766,551

FILING DATE: DECEMBER 12, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Cerrone, Michael C.

REGISTRATION NUMBER: 39,132

REFERENCE/DOCKET NUMBER: PF-0168-1 CIP

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650-855-0555

TELEFAX: 650-845-4166

TELEX:

INFORMATION FOR SEQ ID NO: 10:

SEQUENCE CHARACTERISTICS:

LENGTH: 875 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: UCMCL5T01

CLONE: 1528559

US-09-075-454-10

Alignment Scores:

Pred. No.: 1,34e-145 Length: 875

Score: 1140.00 Matches: 221

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 99.13% Indels: 0

DB: 4 Gaps: 0

US-09-817-199b-2 (1-223) x US-09-075-454-10 (1-875)

QY 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProProCys 22
DB 3 GGCAGCGCAGGCGCGTTCGCCACCGGGATGGCGAGCGCCCGGAGCGTCCCGCCCTGC 62
QY 23 SerProSerTyAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLys 42
DB 63 AGTCCGAGCTACGACCTCACGGCAAGGTGATGCTTCTGGGAGACACAGCGGTGGCAA 122
QY 43 ThrCysPheLeuLeuGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThr 62
DB 123 ACATGTTTCTCGATCCAAATTCAGGACGGGGCTTCTTCTCGGAACCTTCATAGCCACC 182
QY 63 ValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGln 82
DB 183 GTCGGCATAGACTTCAGGACAAAGGTGCTGACTGTGGATGGGTGAGAGTGAAGCTGCAG 242
QY 83 IleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgasp 102
DB 243 ATCTGGACACCGCTGGCGAGGACGGTTCGGAAGCGTCCACCATGCTTATTACAGAT 302
QY 103 AlaGlnAlaLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIlearg 122
DB 303 GCTCAGGCTTGTCTCTGTATGATCATCAACAAATCTTCTTTCGACAACATCAGG 362
QY 123 AlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGly 142
DB 363 GCCTGGCTCACTGAGATTCATGATATGCCAGAGGAGCGTGGTATCATGCTGCTAGCC 422
QY 143 AsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAla 162
DB 423 AACAGGCGGATATGAGCAGGAAAGAGTATCCGTTCCGAAGACGAGAGACCTTGGCC 482
QY 163 ArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeu 182
DB 483 AGGGAGTACGGTGTTCCTTCTTGGAGACCGCCAAAGACTGGCATGAATGGAGATTA 542
QY 183 AlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluPro 202

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Db 543 GCCTTCTGCCATCCCAAGGACTGAATACCGGGCGGGGCATCAGGGGATGAGCCC 602
QY 203 SerPheGlnIleArgAspTyrValGluSerGlnLysArgSerCysCysSerPhe 222
Db 603 AGCTTCAGATCCGAGACTATGTAGAGTCCCAAGAAGCGCTCCAGCTGCTCCTTC 662
QY 223 Met 223
Db 663 ATG 665

RESULT 3
US-08-824-873-2
; Sequence 2, Application US/08824873
; Patent No. 5843717
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; FILING DATE: US/08/824,873
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0240 US
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; LIBRARY: PANCNOT04
; CLONE: 738957
US-08-824-873-2

Alignment Scores:
Pred. No.: 1,34e-89 Length: 1340
Score: 731.00 Matches: 141
Percent Similarity: 86.73% Conservative: 29
Best Local Similarity: 71.94% Mismatches: 25
Query Match: 63.57% Indels: 2
DB: 2 Gaps: 0

US-09-817-199b-2 (1-223) x US-08-824-873-2 (1-1340)
QY 26 TyrAspLeuThrGlyLysValMetLeuLysAspThrGlyValGlyLysThrCysPhe 45
Db 22 TAGGAGCTGCCCTTCAAGGTCATGCTGGTGGGAGCTCGGTGTGGGAAGACCTGTCTG 81
QY 46 Leu-IleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyI 65
Db 82 CTGGGTGCGATTCAAGATGGTGTCTTCCTGGGGGAGACCTTCATCTCCACCGTAGC-AT 140
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QY 65 eAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTrpAs 85
Db 141 TGACTTCCGGAACAAAGTTCTGCGAGTGGATGGTGAAGTGAAGTGAAGTGAAGTGGGA 200
QY 85 pThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAl 105
Db 201 CACAGCTGGTCCAGGAGCGGTTCGCCAGTGTACCCATGCCCTACTACCGGATGCTCATGC 260
QY 105 aLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrpLe 125
Db 261 TCTGCTGCTCTACGATGTCCACCAACAGGCTCTCTTTGACACATCCAGGCTGGCT 320
QY 125 uThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLysAl 145
Db 321 GACCGAGATCCAGAGTACGCCAGCAGCAGCTGGCGCTCATGCTGCTGGGGAACAAGGT 380
QY 145 aAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTy 165
Db 381 GGACTCTGCCATGAGCGTGTGGTGAAGAGGAGGAGCGGGGGAAGCTGGCCAGGAGTA 440
QY 165 rGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLe 185
Db 441 TGGACTGCCCTTCATGGAGACGAGCCAGAGCGGCTCAAGCTGGACTTGGCTTCAC 500
QY 185 uAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluProSerPheGl 205
Db 501 AGCCATAGCAAGAGGAGTTGAAGCAGCGCTCCATGAAGGCTCCAGGAGCGCGCTCCG 560
QY 205 nIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys 220
Db 561 GCTGTCATGATTACGTTAAGAGGAGGAGGTGCGAGGGGCGCTCCTGCTGC 606

RESULT 4
US-09-198-184-2
; Sequence 2, Application US/09198184
; Patent No. 6010859
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/198,184
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0240 US
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
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; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PANCNOT04
; CLONE: 738957
US-09-198-184-2

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Alignment Scores:

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Pred. No.: 1,348-89 Length: 1340
Score: 731.00 Matches: 141
Percent Similarity: 86.73% Conservative: 29
Best Local Similarity: 71.94% Mismatches: 25
Query Match: 63.57% Indels: 2
DB: 3 Gaps: 0

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US-09-817-199B-2 (1-223) x US-09-198-184-2 (1-1340)

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QY 26 TyrAspLeuThrGlyValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPhe 45
Db 22 TACGAGCTGCGCTTCAAGTCTATGCTGGGGGACTCGGTGGGGAAGACCTGTCTG 81
QY 46 Leu-IleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyI 65
Db 82 CTGGGTGGGATTCAGGATGCTTCTCGGGGGGACCTCATCTCCACCGTAGC-AT 140
QY 65 eAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTIPAs 85
Db 141 TGACTTCGGACAAAGTCTGGAGCTGGATGGTGAAGTGAAGTGAAGTGAAGTGAAG 200
QY 85 pThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAl 105
Db 201 CACAGCTGTCAGGAGCGGTTCGCGAGTGTACCATGCTTACCGGGATGCTCATGC 260
QY 105 aleuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrpLe 125
Db 261 TCTGCTGCTGCTCTACGATGTCACCAAGGCTCTTTCACACATCCAGGCTGCTGCT 320
QY 125 uThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAspLysAl 145
Db 321 GACCGAGATCCACGAGTACGCCAGCAGCTGGCGTCTATGCTGGGGGAACAAGT 380
QY 145 aAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTy 165
Db 381 GGACTCTCCCTATGAGCGTGTGGTGAAGAGGAGGAGCGGGGAGAGCTGGCGCTTCC 440
QY 165 rGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLe 185
Db 441 TGGACTGCCCTTCATGGAGACAGCGCCCAAGCGGGGCTCAACGTGGACTTGGCCTTCC 500
QY 185 uAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluProSerPheG1 205
Db 501 AGCCATAGCAAGGAGTTGAAGCAGCGCTCCATGAAGGCTCCACGAGCGCGCTTCCG 560
QY 205 nIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys 220
Db 561 GCTGATGATTACGTTAAGAGGGAGGCTCGAGGGGCTCTCTGCTGC 606

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RESULT 5

US-08-916-901-4

; Sequence 4, Application US/08916901

; Patent No. 5892012

; GENERAL INFORMATION:

; APPLICANT: Hillman, Jennifer L.

; APPLICANT: Lal, Preeti

; APPLICANT: Corley, Neil C.

; APPLICANT: Shah, Purvi

; TITLE OF INVENTION: RAB PROTEINS

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Incyte Pharmaceuticals, Inc.

; STREET: 3174 Porter Dr.

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

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; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/916,901
; FILING DATE: Filed herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0367 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-845-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 925 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: LIVRUT04
; CLONE: 2514506
US-08-916-901-4

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Alignment Scores:

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Pred. No.: 2,598-54 Length: 925
Score: 470.00 Matches: 88
Percent Similarity: 64.41% Conservative: 55
Best Local Similarity: 39.64% Mismatches: 73
Query Match: 40.87% Indels: 6
DB: 2 Gaps: 3

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US-09-817-199B-2 (1-223) x US-08-916-901-4 (1-925)

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QY 3 GlyThrProGlyAlaValAlaAlaThrArgAspGlyGluAlaProGluArgSerProCys 22
Db 9 GGAAGGGAGCGGACAGAGTCTGAGGAGCGGAGCGGCGCGCGCGCGCATG 68
QY 23 SerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLys 42
Db 69 AACCCGGAATATGACTACCTCTTTAAGCTGCTTTTATGATGGCGACTCAGGGGTGGCAAG 128
QY 43 ThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThr 62
Db 129 TCATGCGCTGCTCCCGGTTTGGTGTGATGACACAGTAC---ACAGAGAGCTCATCAGCACC 185
QY 63 ValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGln 82
Db 186 ATCGGGGTGGACTTCAAGATCCGAACCATCAGAGCTGGATGCAAAACTATCAAACTTCAG 245
QY 83 IleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAsp 102
Db 246 ATCTGGGACACAGCGGCGGACAGCGGTTCGGACCATCATCTCCAGCTACTACCGGGG 305
QY 103 AlaGlnAlaLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArg 122
Db 306 GCTCATGCGCATCGTGTGTATGACGTCTACCTACCCAGGAGTCAATAAGCTCTCTGTGGG 365
QY 123 AlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGly 142
Db 366 CAGTGGCTGCGAGGAGATTGACCGCTATGCCAGCGAGAGAGTCAATAAGCTCTCTGTGGG 425
QY 143 AsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAla 162
Db 426 AACAGAGCGGACCTCACCAAGAGGTGTGGGACACACACACACACAGGAGTTTGC 485
QY 163 ArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeu 182

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Db 486 GACTCTGGGATCCCTCTTGGAGACGAGCGCCCAAGATGCCACCATGTGCGACAG 545
|||||
Qy 183 AlapheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAla----- 199
|||||
Db 546 GCCTTCATGACCATGGCTGCTGAATCAAAAGCGGATGGGCGCTGGAGCAGCCTCTCTGGG 605
Qy 200 ---AspGluProSerPheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSer 218
Db 606 GCGGAGCGGCGCAATCTCAAGATC---GACAGCACCCCTGTAAAGCGGCTGGCGGTGGC-662
Qy 219 CysCys 220
Db 663 TGTTC 668
RESULT 6
US-09-154-602-4
; Sequence 4, Application US/09154602
; Patent No. 6300472
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: RAB PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA: US/09/154, 602
; FILING DATE:
; PRIORITY APPLICATION DATA: US/09/154, 602
; APPLICATION NUMBER: 08/916, 901
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0367 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 925 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: LIVRUT04
; CLONE: 2514506
US-09-154-602-4
Alignment Scores:
Pred. No.: 2.58e-54 Length: 925
Score: 470.00 Matches: 88
Percent Similarity: 64.41% Conservative: 55
Best Local Similarity: 39.64% Mismatches: 73
Query Match: 40.87% Indels: 6
DB: 4 Gaps: 3
US-09-817-199b-2 (1-223) x US-09-154-602-4 (1-925)
Qy 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProCys 22

Db 9 GGACCGGAGCGCGACAGAGTCGACTGGGAGCGACCGAGCGGCGCGCGCCGCCCATG 68
|||||
Qy 23 SerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLys 42
|||||
Db 69 AACCCCAATATGACTACCTGTTTAAGCTGCTTTGATTGGGACTCAGCGGTGGGCAAG 128
Qy 43 ThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThr 62
Db 129 TCATGCTGCTGCTGCGGTTTGTCTGACACAGTAC---ACAGAGAGCTATCATCAGACC 185
Qy 63 ValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGln 82
Db 186 ATCGGGTGGACTTCAGATCCGAACCATCGAGCTGGATGCAAACTATCAACTTCAG 245
Qy 83 IleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAsp 102
Db 246 ATCTGGGACACAGCGCGCCAGGACGGTTCCGGACCATCACTTCCAGCTACTACCGGGG 305
Qy 103 AlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArg 122
Db 306 GCTCATGGCATCATCGTGGTGTATGACGTCACTGACCAGGAATCTAGCCCAAGCTGAAG 365
Qy 123 AlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGly 142
Db 366 CAGTGGCTGCGAGGATGACCGGTATGCCAGCAGAACGTCATAATGCTCTGTGTGGC 425
Qy 143 AsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAla 162
Db 426 AACAGAGCGACCTCACCACCAAGAGTGTGGTGCACACACACACAGGAGCTTCA 485
Qy 163 ArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeu 182
Db 486 GACTCTCTGGGCATCCCTTCTTGAGACGACGCGCCAGAAATGCCACCAATGTCGAGCAG 545
Qy 183 AlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAla----- 199
Db 546 GCGTTCATGACCATGGCTGCTGAATCAAAAGCGGATGGGCGCTGGAGCAGCCTCTCTGGG 605
Qy 200 ---AspGluProSerPheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSer 218
Db 606 GCGCAGCGCGCCCAATCTCAAGATC---GACAGCACCCCTGTAAAGCGGCTGGCGGTGGC 662
Qy 219 CysCys 220
Db 663 TGTTC 668
RESULT 7
US-09-399-913-66
; Sequence 66, Application US/09399913
; Patent No. 6361971
; GENERAL INFORMATION:
; APPLICANT: Rhodes, Kenneth
; APPLICANT: Betty, Maria
; APPLICANT: Ling, Huai-Ping
; APPLICANT: An, Wenqian
; TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR
; FILE REFERENCE: MNI-070CP2
; CURRENT APPLICATION NUMBER: US/09/399,913
; CURRENT FILING DATE: 1999-09-21
; EARLIER APPLICATION NUMBER: USSN 60/110,277
; EARLIER FILING DATE: 1998-11-30
; EARLIER APPLICATION NUMBER: USSN 60/110,033
; EARLIER FILING DATE: 1998-11-25
; EARLIER APPLICATION NUMBER: USSN 60/109,333
; EARLIER FILING DATE: 1998-11-20
; EARLIER APPLICATION NUMBER: USSN 09/298,731
; EARLIER FILING DATE: 1999-04-23
; EARLIER APPLICATION NUMBER: USSN 09/350,614
; EARLIER FILING DATE: 1999-07-09
; EARLIER APPLICATION NUMBER: USSN 09/350,874
; EARLIER FILING DATE: 1999-07-09
; NUMBER OF SEQ ID NOS: 73

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 66

LENGTH: 639

TYPE: DNA

ORGANISM: Rattus sp.

FEATURE:

NAME/KEY: CDS

LOCATION: (1)..(636)

US-09-399-913-66

Alignment Scores:

Pred. No.: 1.2e-51 Length: 639
Score: 448.50 Matches: 81
Percent Similarity: 72.4% Conservative: 40
Best Local Similarity: 48.50% Mismatches: 45
Query Match: 39.00% Indels: 1
DB: 4 Gaps: 1

US-09-817-199B-2 (1-223) x US-09-399-913-66 (1-639)

QY 25 SerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCys 44
Db 4 GCGTACGGCTATCTTCAAGTACATCATCATCGCGCACACAGGTGTGGTAAATCGTGC 63
QY 45 PheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGly 64
Db 64 TTATGCTACATTTACACACAGAGGTTT---CAGCCGGTGCATGACCTCACAAATGTT 120
QY 65 IleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTrp 84
Db 121 GTAGAGTTTGGTGTCTGAATACCATTCATGCGGAACACAGATAAAATCCAGATCTGG 180
QY 85 AspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGln 104
Db 181 GATACAGCAGCGCAGGAGTCTTCTGTTCTATCAACAGTCATATACAGAGTGCAGCG 240
QY 105 AlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerPheAspAsnIleArgAlaTrp 124
Db 241 GGGGCTTACTAGTGTATGATATACAGGAGACAGACGCTCAACCACTGACACCTGG 300
QY 125 LeuThrGluIleHisGluTyrAlaGlnArgAspValIleMetLeuLeuGlyAsnLys 144
Db 301 TTAGAAGCGCCGCGCAGCATCCCAATCCCAATGTCATGTCATGTCATGTCATGTCATG 360
QY 145 AlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGlu 164
Db 361 AGTGACTTAGATCTAGGAGCAAGTGAAGAAGGAGAGGTGAAGCTTTTGCACGAGAG 420
QY 165 TyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPhe 184
Db 421 CATGCACTTATCTTCACTGAAACTTCTGCCAAGACTGCTTCTAATGTAGAGGAGCAATT 480
QY 185 LeuAlaIleAlaLysGluLeu 191
Db 481 ATTAACACAGCAAAAGAATT 501

RESULT 8

US-08-888-077A-28

Sequence 28, Application US/08888077A

Patent No. 6020143

GENERAL INFORMATION:

APPLICANT: ST. GEORGE-HYSLOP, PETER H

APPLICANT: ROMMENS, JOHANNA M

APPLICANT: FRASER, PAUL E

TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED

TITLE OF INVENTION: TO ALZHEIMER'S DISEASE AND USES THEREFOR.

NUMBER OF SEQUENCES: 41

CORRESPONDENCE ADDRESS:

ADDRESS: LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK

STREET: 600 SOUTH AVENUE WEST

CITY: WESTFIELD

STATE: NJ

COUNTRY: USA

ZIP: 07090-1497
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/888,077A
FILING DATE: 03-JUL-1997
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/592,541
FILING DATE: 26-JAN-1996
ATTORNEY/AGENT INFORMATION:
NAME: PALISI, THOMAS M
REGISTRATION NUMBER: 36,629
REFERENCE/DOCKET NUMBER: SCHERING 3.0-017 CIP CIP CIP IV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 654-5000
TELEFAX: (908) 654-7866
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 970 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..970
OTHER INFORMATION: /note= "Y2H3"
US-08-888-077A-28

Alignment Scores:
Pred. No.: 1.05e-42 Length: 970
Score: 385.00 Matches: 86
Percent Similarity: 57.87% Conservative: 39
Best Local Similarity: 39.81% Mismatches: 76
Query Match: 33.48% Indels: 16
DB: 3 Gaps: 4

US-09-817-199B-2 (1-223) x US-08-888-077A-28 (1-970)

QY 7 AlaValAlaThrArgAspGlyGlyAlaProGluArgSerProProCysSerProSerTyr 26
Db 51 GCATGGCCACCGCGCAGCAGAG-----TAC 77
QY 27 AspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeu 46
Db 78 GACTACCTCTTAAAGTTGCTTATTGAGATTCTGCTGTGGAAGAGTAATCTCTG 137
QY 47 IleGlnPheLysAspGlyAlaPhe---LeuSerGlyThrPheIleAlaThrValGlyIle 65
Db 138 TCTCGATTTACTCGAAATGAGTTTAACTCTGGAAGCAAG-----AGCACCATTGGAGTA 191
QY 66 AspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTrpAsp 85
Db 192 GAGTTTGCACAAAGCAAGCATCCAGTTGATGAAAACAATAAAGCAGCATATGGGAC 251
QY 86 ThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAla 105
Db 252 ACAGCAGGCAAGCAGCATATCGAGCTATAACATCAGCATATATATCGTGGAGCTAGGT 311
QY 106 LeuLeuLeuLeuTyrAspIleThrAsnLysSerPheAspAsnIleArgAlaTrpLeu 125
Db 312 GCCTATTGGTTTATGACATTCCTAAACATCTCAACATGAAATGTAGAGCGATGGCTG 371
QY 136 ThrGluIleHisGluTyrAlaGlnArgAspValIleMetLeuLeuGlyAsnLysAla 145
Db 372 AAAGACTGAGAGATCATGCTAGTAGTAACATGTTATCTGCTGTGGCAATAAGAGT 431
QY 146 AspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyr 165
Db 432 GATCTACGTCATCTCAGGCGAGTTCCTACAGATGAGCAAGAGCTTTTGCAGAGAAGAT 491


```

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/773,423
FILING DATE: Herewith
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0183 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 847 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: Consensus
CLONE: Consensus
US-08-773-423-4

Alignment Scores:
Pred. No.: 2,92e-39 Length: 847
Score: 359.00 Matches: 77
Percent Similarity: 56.58% Conservative: 39
Best Local Similarity: 37.56% Mismatches: 79
Query Match: 31.22% Indels: 10
DB: 2 Gaps: 2

US-09-817-199B-2 (1-223) x US-08-773-423-4 (1-847)

QY 26 TyrAspLeuThrGlyValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPhe 45
DB 95 TATACTTTGTTCTTCAAGTGTGTGTGTCGCGCAATCAGGTGTGGGAAGCACTA 154
QY 46 LeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyTyr 65
DB 155 CTCTCCGATTCACCGCAATGAGTTC---AGCCAGCAGCCGCCACCCATCGGGTT 211
QY 66 AspPheArgAsnLysValThrValArgValLysLeuGlyLysLeuIleTrpAsp 85
DB 212 GAGTTCACCCGCACTGTATGTTGGCACCGCTGCTGCAAGGCTCAGATCGGAC 271
QY 86 ThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAla 105
DB 272 ACAGCTGGCTGGAGCGGTACCGACCATCCTCGGCGTACTATCGTGGTGCACTGGGG 331
QY 106 LeuLeuLeuLysTrpAspIleThrAsnLysSerPheAspAsnIleArgAlaTrpLeu 125
DB 332 GCCTCTCTGTTGTTGACCTACCAAGCAGCAGACCTATGCTGTGGTGAGCGATGGCTG 391
QY 126 ThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLysAla 145
DB 392 AAGGAGCTATGACCATGCTGAAGCCAGATCGTCTGCTGCTGCTGCTGCTGCTGCTGCTG 451
QY 146 AspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyr 165
DB 452 GACCTCAGCGCGGCGGAGTCCCTACCTAGGAGCGCCGCAATGCTTCGTAACCAAT 511
QY 166 GlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeu 185
DB 512 GAGCTGCTCTCTCTGAGACCTCAGCCCTGGACTACCACTGTTGAGCTAGCCCTTGAG 571
QY 186 AlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluPro----- 202
DB 572 ACTGTCCTGAAAGAATCTTTTCGGAAGGTGTCCAGCAGCAGACAGACAGCATCGGACC 631
QY 203 -----SerPheGlnIleArgAspTyrValGluSerGlnLysLysArg 216

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/773,423
FILING DATE: Herewith
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0183 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 847 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: Consensus
CLONE: Consensus
US-08-773-423-4

Alignment Scores:
Pred. No.: 2,92e-39 Length: 847
Score: 359.00 Matches: 77
Percent Similarity: 56.58% Conservative: 39
Best Local Similarity: 37.56% Mismatches: 79
Query Match: 31.22% Indels: 10
DB: 2 Gaps: 2

US-09-817-199B-2 (1-223) x US-08-773-423-4 (1-847)

QY 26 TyrAspLeuThrGlyValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPhe 45
DB 95 TATACTTTGTTCTTCAAGTGTGTGTGTCGCGCAATCAGGTGTGGGAAGCACTA 154
QY 46 LeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyTyr 65
DB 155 CTCTCCGATTCACCGCAATGAGTTC---AGCCAGCAGCCGCCACCCATCGGGTT 211
QY 66 AspPheArgAsnLysValThrValArgValLysLeuGlyLysLeuIleTrpAsp 85
DB 212 GAGTTCACCCGCACTGTATGTTGGCACCGCTGCTGCAAGGCTCAGATCGGAC 271
QY 86 ThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAla 105
DB 272 ACAGCTGGCTGGAGCGGTACCGACCATCCTCGGCGTACTATCGTGGTGCACTGGGG 331
QY 106 LeuLeuLeuLysTrpAspIleThrAsnLysSerPheAspAsnIleArgAlaTrpLeu 125
DB 332 GCCTCTCTGTTGTTGACCTACCAAGCAGCAGACCTATGCTGTGGTGAGCGATGGCTG 391
QY 126 ThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLysAla 145
DB 392 AAGGAGCTATGACCATGCTGAAGCCAGATCGTCTGCTGCTGCTGCTGCTGCTGCTGCTG 451
QY 146 AspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyr 165
DB 452 GACCTCAGCGCGGCGGAGTCCCTACCTAGGAGCGCCGCAATGCTTCGTAACCAAT 511
QY 166 GlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeu 185
DB 512 GAGCTGCTCTCTCTGAGACCTCAGCCCTGGACTACCACTGTTGAGCTAGCCCTTGAG 571
QY 186 AlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluPro----- 202
DB 572 ACTGTCCTGAAAGAATCTTTTCGGAAGGTGTCCAGCAGCAGACAGACAGCATCGGACC 631
QY 203 -----SerPheGlnIleArgAspTyrValGluSerGlnLysLysArg 216

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/773,423
FILING DATE: Herewith
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Hillman, Jennifer L.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0183 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 847 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: Consensus
CLONE: Consensus
US-08-773-423-4

Alignment Scores:
Pred. No.: 2,45e-31 Length: 1175
Score: 302.50 Matches: 73
Percent Similarity: 53.54% Conservative: 33
Best Local Similarity: 36.87% Mismatches: 79
Query Match: 26.30% Indels: 13
DB: 2 Gaps: 6

US-09-817-199B-2 (1-223) x US-08-773-423-6 (1-1175)

QY 31 LysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeuIleGlnPheLys 50
DB 111 AAAGTAATCTCCTTGGAGATGGTGGAGATTCCTACTATGACAGATATGTA 170
QY 51 AspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyTyrAspPheArgAsnLys 70
DB 171 ACTAATAAGTTTGTATACCCAGCTCTTC---CATACAATAGGTGTGGAATTTTAAATAA 227
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QY 71 ValValThrValAspGlyValArgValLysLeuGlnIleTrpAspThrAlaGlyGlnGlu 90
Db 228 GATTGGAAGTGGATGACATTTTGTACCATGAGATTTGGGACAGCGGAGGTCAGGAG 287
QY 91 ArgPheArgSerValThrHisAlaIleTyrArgAspAlaGlnAlaLeuLeuLeuTyr 110
Db 288 CGATTCCGAAGCCTGAGGACACCATTTTACAGAGTTCTGACTGCTGCTGCTTACTTTT 347
QY 111 AspIleThrAsnLysSerPheAspAsnIleArgAlaTrpLeuThrGluIleHisGlu 130
Db 348 AGTGTGATGATTCACAAAGCTTCCAGAACTTAAGTAAGTGAAGAAAGAAATTCATATAT 407
QY 131 TyrAlaGln-----ArgAspValValIleMetLeuLeuGlyAsnLysAlaAsp 146
Db 408 TRTGCAGATGTGAAGAGCCTGAGAGCTTTCCTTTTGTGATTCGTTGGTAAACAAGATGAC 467
QY 147 MetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyrGly 166
Db 468 ATA---AGCGAAGCGGAGGTGCTACAGAAAGAGCCCAAGCTTGGTCAGGAGCAACGGC 524
QY 167 ---ValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeu 185
Db 525 GACTATCCTTATTGTAACAAGTGCACAAAGATGCCACAAATGTGGCAGCAGCCTTTGAG 584
QY 186 AlaIleAlaLysGluLeu-----LysTyrArgAlaGlyHisGlnAlaAspGluPro 202
Db 585 GAAGCGGTTCGAGAGATTCCTGTACCGAGATAGGTGATGATTCATTTGATTCACAGAC 644
QY 203 SerPheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys 220
Db 645 ACAGTCAATCTTCAC-----CGAAAGCCCAAGCCTAGCTCATCTGCTGT 689

RESULT 12

US-08-741-411-6
; Sequence 6, Application US/08741411
; Patent No. 6124116
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL RAB PROTEINS
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/741.411
; FILING DATE: Herewith
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0139 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 820 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; IMMEDIATE SOURCE:
; LIBRARY:
; CLONE: Consensus
US-08-741-411-6

Alignment Scores:

Pred. No.: 1.05e-30 Length: 820
Score: 296.00 Matches: 71
Percent Similarity: 49.52% Conservative: 32
Best Local Similarity: 34.13% Mismatches: 71
Query Match: 25.74% Indels: 34
Db: 3 Gaps: 4

US-09-817-199b-2 (1-223) x US-08-741-411-6 (1-820)

QY 20 ProProCysSerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGly 39
Db 159 CCCAGGGTGGCCCGCCAGCCCGCGTGTTCAGCTGGTTCCTCGGGAAGTGGCTCC 218
QY 40 ValGlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPhe 59
Db 219 GTGGGTGCG----- 227
QY 60 IleAlaThrValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgVal 79
Db 228 -----TTCTTCAAAAGGAGGTGGATGTGGTGCACCTCTCTG 266
QY 80 LysLeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyr 99
Db 267 AAGCTTGAGATCTGGGACACAGCTGGCCAGGAGAGTACCACACCGTCTGCCACCTCTAC 326
QY 100 TyrArgAspAlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAsp 119
Db 327 TTCAGGGTGGCCAAAGCTGCGCTTCTGGTGTACGACATCACCAGGAAGATTCCTCTCTC 386
QY 120 AsnIleArgAlaTrpLeuThrGluIleHisGluTyrAlaGln---ArgAspValValIle 138
Db 387 AAGCTCAGCAGTGGCTGAAGGAGCTGGAGGAGGAGTGCACCCAGGAGAGTCTCTGTGT 446
QY 139 MetLeuLeuGlyAsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGly 158
Db 447 ATGCTGGTGGCAACAGACCGACTCAGCAGGCGGAGGAGTACCTCCAGGAAGGG 506
QY 159 GluThrLeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMet 178
Db 507 AAGGAGTTTGGCGACAGCCAGAGTTGCTTTCATGGAAACTTCGGCCAAACTGAACAC 566
QY 179 AsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGln 198
Db 567 CAGGTGTGGAGGTGTTCAATACAGTGGCCCAAGAGCTACTGCAGAGA----- 614
QY 199 AlaAspGluProSerPheGlnIleArgAspTyrVal-----GluSerGln 213
Db 615 AGCCAGGAGGAGGCGGAGGCTCTACGGGGGATGACAGCTGTGGCTCTGAACAAGGGGCC 674
QY 214 LysLysArgSerSerCysCysSer 221
Db 675 GCGAGGCGAGGCGCAAAATGCTGGGCC 698

RESULT 13

US-09-075-454-11
; Sequence 11, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, Y. Tom
; APPLICANT: Ial, Preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Batra, Sajeev

APPLICANT: Baughn, Mariah R.
TITLE OF INVENTION: RAS PROTEINS
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: US
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/075,454
FILING DATE: Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/766,551
FILING DATE: DECEMBER 12, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Cerrone, Michael C.
REGISTRATION NUMBER: 39,132
REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 1533 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: PROSTUT08
CLONE: 1651593
US-09-075-454-11

Alignment Scores:
Pred. No.: 4, 62e-30 Length: 1533
Score: 294.50 Matches: 76
Percent Similarity: 53.36% Conservative: 51
Best Local Similarity: 31.93% Mismatches: 88
Query Match: 25.61% Indels: 23
DB: 4 Gaps: 7

US-09-817-199B-2 (1-223) x US-09-075-454-11 (1-1533)

QY 2 ThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProPro 21
|||||
DB 462 ACGGGCACA-----AAGACTTCCACCCCGCGTCCACCTGCGCGTCCAGGAGCACC 515
QY 22 CysSerProSerTyAspLeu--ThrGlyLysValMetLeuLeuGlyAspThrGlyValG 41
|||||
DB 516 CAGGCACCGTGGCGGACCTTAAGATCTCAAGGTCATTGTGTGGGGGACCTGTGCGTGG 575
QY 41 LysThrCysPheLeuLeuGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleA 61
|||||
DB 576 GGAAGACTTGCTTATTATAGTTCGCAAGACACCTTT---CATAGAAATTACAAGG 632
QY 61 laThrValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysL 81
|||||
DB 633 CCACCATTTGGAGTGACCTTCGAGATGGAACGATTGTGAGTGTGCGCATTCCTTCAGTT 692
QY 81 euGlnIleThrAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrrA 101
|||||
DB 693 TGCAGCTTGGGATACCGCTGGGAGGAGGTTCCAAATGTCATTCATCAACCTACTATA 752
QY 101 tGAspAlaGlnAlaLeuLeuLeuTyAspIleThrAsnLysSerSerPheAspAsnI 121
|||

Db 753 GAGGAGCTCAAGCCATCATCATCTTCAACCTGAATGATGTCATCTCGCAACATA 812
QY 121 leArgAlaTrpLeuThrGlu---lleHisGluTyAlaGlnArgAspValValIleMetL 140
::: ||||| ::: ||| |||||
Db 813 CCAAGCAGTGGTGGCCGATGCGCTGAAGAGATGACCTTCCAGTGTGCTTCTCTCC 872
QY 140 euLeuGlyAsnLysAlaAspMetSer-----SerGluArgValIleArgSerGluAspG 158
|||||
Db 873 TTGTAGTTCCAAAGAGATCTGAGTACCCCTGCTCAGTATCGCTGATGGAGAAGAGG 932
QY 158 lyGluThrLeuAlaArgGluTyGlyValProPheLeuGluThrSerAlaLysThrGlyM 178
::: |||||
Db 933 CCTCCAGTGGCCGAGAGATGAGGCTGAGTACTGGCAGCTCTCATCTCTCCTGTTG 992
QY 178 etAsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyArgAlaGlyHisG 198
|||||
Db 993 AGAATGTCGAGAATCTTCTTCCGTGTGGCA--GCATGACCTTTGAGGCCAATGTGC 1049
QY 198 laAlaAsp-----GluProSerPheGlnIleArgAsp----- 208
|||||
Db 1050 TGGCTGAGTGGAGAAATCGGGGCTCGACGATTTGGGATGTTGCGCATCAACAGTG 1109
QY 209 -----TyrValGluSerGlnLysLysArgSerSerCysCys 220
|||||
Db 1110 ATGACAGCAACCTCTACCTACTGCGCAGGAAGAGCCACATGTGTC 1159

RESULT 14
US-09-075-454-8
; Sequence 8, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Batra, Sajeev
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/075,454
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1172 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: KIDNOT05
CLONE: 627565
US-09-075-454-8

Alignment Scores:
Pred. No.: 8,98e-30 Length: 1172
Score: 291.00 Matches: 76
Percent Similarity: 53.78% Conservative: 52
Best Local Similarity: 31.93% Mismatches: 86
Query Match: 25.30% Indels: 24
DB: 4 Gaps: 8

US-09-817-199B-2 (1-223) x US-09-075-454-8 (1-1172)

QY 2 ThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProPro 21
Db 105 ACGGGCACA-----AAGACTTCCACCCCGCGTCCGCTGCCAGGACCCGGA 158
QY 22 CysSerProSerTyrAspLeu---ThrGlyLysValMetLeuLeuGlyAspThrGlyValG 41
Db 159 CAGGCACCG---TGGGATTAGATCTCCAAGGTCAATTGTGTGGGGACCTGTGCGTGG 215
QY 41 LysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleA 61
Db 216 GGAAGACTTGCCTCATATAGTCTTCAAGACACCTTT---GATAAGAATTAAGAAG 272
QY 61 LeThrValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysL 81
Db 273 CCACCATTTGAGTGGACTTCGAGATGGAACGATTTTCAGGTGCTGGGCTCCCTTCAGTT 332
QY 81 euClnIleThrAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrA 101
Db 333 TGCAGCTTTGGATACCGTGGGACGAGAGGTTCAATGTCATTCATCAACCTACTATA 392
QY 101 rAspAlaGlnAlaLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 121
Db 393 GAGGACTCAAGCCATCATATGTTCTTCAACCTGAATGATGGGCTCTCTGGAACATA 452
QY 121 leArgAlaTrpLeuThrGlu---IleHisGluTyrAlaGlnArgAspValValIleMetL 140
Db 453 CCAAGCAGTGGTGGCGGATGCCCTGAAGGAGATGACCTTCCAGTGTGCTCTCTTCC 512
QY 140 euLeuGlyAsnLysAlaAspMetSer-----SerGluArgValIleArgSerGluAspG 158
Db 513 TTGTAGTTTCCAGAGAGATCTGATGATCCCTGCTCAGTATGCGCTGATGGAGAGAGCG 572
QY 158 LysGluThrLeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyM 178
Db 573 CCTCCAGTGGCCAGGAGATGAAGGCTGAGTACCTGGGAGTCTCATCTCTCAGCTGGTG 632
QY 178 eTasnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisG 198
Db 633 AGAATCTCCGAGAAATCTTCTTCCGTTGGCA---GCACCTGACCTTTGAGGCCAATGTC 689
QY 198 luAlaAsp-----GluProSerPheClnIleArgasp----- 208
Db 690 TGCTGAGTGGAGAAATCGGGGCTCGACGCAATGGGATGTGTCGCCATCAACAGTG 749
QY 209 -----TyrValGluSerGlnLysLysArgSerSerCysCys 220
Db 750 ATGACAGCAACCTCTACCTAACTGCGCAGCAAGAAGAAGCCACATGTTGC 799

RESULT 15

US-08-741-411-2
Sequence 2, Application US/08741411
Patent No. 6124116
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Au-Young, Janice
TITLE OF INVENTION: NOVEL RAB PROTEINS
NUMBER OF SEQUENCES: 12

CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: US
ZIP: 94304

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA: US/08/741,411
APPLICATION NUMBER: US/08/741,411
FILING DATE: Herewith
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0139 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
TELEX:

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 848 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY: Consensus
CLONE: US-08-741-411-2

Alignment Scores:

Pred. No.: 4,1e-29 Length: 848
Score: 284.50 Matches: 60
Percent Similarity: 53.11% Conservative: 34
Best Local Similarity: 33.90% Mismatches: 74
Query Match: 24.74% Indels: 9
DB: 3 Gaps: 2

US-09-817-199B-2 (1-223) x US-08-741-411-2 (1-848)

QY 37 AspThrGlyValGlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSer 56
Db 216 GACACTGGGTTGGGAATCAAGCATCGTGTGTCGATTTGCCAGGATCATT---GAC 272
QY 57 GlyThrPheIleAlaThrValGlyIleAspPheArgAsnLysValValThrValAspGly 76
Db 273 CACAACATCAGCCCTACTATGTGGGCATCTTTATGACCAAACTGTCCTGTGGAAAT 332
QY 77 ValArgValLysLeuGlnIleThrAspThrAlaGlyGlnGluArgPheArgSerValThr 96
Db 333 GAACCTTCACAAGTTCCTCATCTGGGACACTGCTGGTTCAGAACGCTTTCATTTCGCT 392
QY 97 HisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeuLeuLeuTyrAspIleThrAsnLysSer 116
Db 393 CCATGTACTATTCAGGCTCAGCTGCGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 452
QY 117 SerPheAspAsnIleArgAlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspVal 136
Db 453 TCATTTTATACCTTGAGAAATGGTCAAGGATGGTCAAGACATGTCAGAACAAACATT 512
QY 137 ValIleMetLeuLeuGlyAsnLysAlaAspMetSerSerGluArgValIleArgSerGlu 156
Db 513 GTAATGGCCATCCTCGGAACAAAGTGGGACCTCTCAGATATTAGGGAGGTTCCTCCGTAAG 572

